

ABSTRACT

A conventional waveform generation circuit was required to increase a number of bits or a sampling rate for a D/A converter to enhance a precision of waveform shaping, and had a problem that a cost was increased. Therefore, as a method for enhancing the precision of waveform shaping, a quantization error of an output waveform is made smaller by controlling an output time interval of an output value from a D/A converter so as to make a difference in an output voltage between target waveform and output waveform smaller. As a result, even if the D/A converter has a small number of bits, the waveform can be generated at high precision. Also, this waveform generation method may be applied to modulation control of a radar apparatus, as a result, constituting a small and inexpensive modulation circuit for an oscillator.